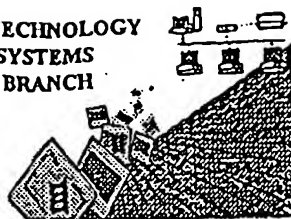


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/716,578
Source: 1FW/b
Date Processed by STIC: 12/28/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,
Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,578

DATE: 12/28/2004

TIME: 09:43:42

Input Set : E:\SequenceList_014811-30.8DV4 (Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

3 <110> APPLICANT: Ekwuribe, Nnochiri N.
 4 Radhakrishnan, Balasingam
 5 Price, Christopher H.
 6 Anderson, Wesley R.
 7 Ansari, Aslam M.
 9 <120> TITLE OF INVENTION: Methods Of Altering The Binding Affinity Of A Peptide To Its
 10 Receptor
 12 <130> FILE REFERENCE: 014811-30.8DV4
 14 <140> CURRENT APPLICATION NUMBER: 10/716,578
 15 <141> CURRENT FILING DATE: 2003-11-19
 17 <150> PRIOR APPLICATION NUMBER: 09/134,803
 18 <151> PRIOR FILING DATE: 1998-08-14
 20 <160> NUMBER OF SEQ ID NOS: 52
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 6
 26 <212> TYPE: PRT
 27 <213> ORGANISM: artificial sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Synthetic
 32 <220> FEATURE:
 33 <221> NAME/KEY: MOD_RES
 34 <222> LOCATION: (6)..(6)
 35 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
 37 <400> SEQUENCE: 1
 39 Tyr Gly Gly Phe Met Lys
 40 1 5
 44 <210> SEQ ID NO: 2
 46 <211> LENGTH: 6
 48 <212> TYPE: PRT
 50 <213> ORGANISM: artificial sequence
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Synthetic
 56 <220> FEATURE:
 58 <221> NAME/KEY: MOD_RES
 60 <222> LOCATION: (1)..(1)
 62 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
 66 <220> FEATURE:
 68 <221> NAME/KEY: MOD_RES
 70 <222> LOCATION: (6)..(6)
 72 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
 76 <400> SEQUENCE: 2
 78 Tyr Gly Gly Phe Met Lys

**Does Not Comply
Corrected Diskette Needed**

ppr 5-6

RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

79 1 5
81 <210> SEQ ID NO: 3
83 <211> LENGTH: 6
85 <212> TYPE: PRT
87 <213> ORGANISM: artificial sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Synthetic
93 <220> FEATURE:
95 <221> NAME/KEY: MOD_RES
97 <222> LOCATION: (1)..(1)
99 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
103 <400> SEQUENCE: 3
105 Tyr Gly Gly Phe Met Lys
106 1 5
108 <210> SEQ ID NO: 4
110 <211> LENGTH: 6
112 <212> TYPE: PRT
114 <213> ORGANISM: artificial sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Synthetic
120 <220> FEATURE:
122 <221> NAME/KEY: MOD_RES
124 <222> LOCATION: (1)..(1)
126 <223> OTHER INFORMATION: ACETYLATION
130 <220> FEATURE:
132 <221> NAME/KEY: MOD_RES
134 <222> LOCATION: (6)..(6)
136 <223> OTHER INFORMATION: AMIDATION
140 <400> SEQUENCE: 4
142 Phe Arg Trp Trp Tyr Lys
143 1 5
145 <210> SEQ ID NO: 5
147 <211> LENGTH: 6
149 <212> TYPE: PRT
151 <213> ORGANISM: artificial sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Synthetic
157 <220> FEATURE:
159 <221> NAME/KEY: MOD_RES
161 <222> LOCATION: (1)..(1)
163 <223> OTHER INFORMATION: ACETYLATION
167 <220> FEATURE:
169 <221> NAME/KEY: MOD_RES
171 <222> LOCATION: (6)..(6)
173 <223> OTHER INFORMATION: AMIDATION
177 <400> SEQUENCE: 5
179 Arg Trp Ile Gly Trp Lys
180 1 5
182 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList_014811-30.8DV4 (Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

184 <211> LENGTH: 6
186 <212> TYPE: PRT
188 <213> ORGANISM: artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic
194 <220> FEATURE:
196 <221> NAME/KEY: MOD_RES
198 <222> LOCATION: (6)..(6)
200 <223> OTHER INFORMATION: AMIDATION
204 <220> FEATURE:
206 <221> NAME/KEY: UNSURE
208 <222> LOCATION: (6)..(6)
210 <223> OTHER INFORMATION: Xaa can be any of the twenty naturally occurring amino acids
214 <400> SEQUENCE: 6
W--> 216 Trp Trp Pro Lys His Xaa
217 1 5
219 <210> SEQ ID NO: 7
221 <211> LENGTH: 4
223 <212> TYPE: PRT
225 <213> ORGANISM: artificial sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Synthetic
231 <220> FEATURE:
233 <221> NAME/KEY: MOD_RES
235 <222> LOCATION: (4)..(4)
237 <223> OTHER INFORMATION: AMIDATION
241 <220> FEATURE:
243 <221> NAME/KEY: UNSURE
245 <222> LOCATION: (4)..(4)
247 <223> OTHER INFORMATION: Xaa is either Lys or Arg
251 <400> SEQUENCE: 7
W--> 253 Trp Trp Pro Xaa
254 1
256 <210> SEQ ID NO: 8
258 <211> LENGTH: 6
260 <212> TYPE: PRT
262 <213> ORGANISM: artificial sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Synthetic
268 <220> FEATURE:
270 <221> NAME/KEY: MOD_RES
272 <222> LOCATION: (6)..(6)
274 <223> OTHER INFORMATION: AMIDATION
278 <220> FEATURE:
280 <221> NAME/KEY: UNSURE
282 <222> LOCATION: (6)..(6)
284 <223> OTHER INFORMATION: Xaa can be any one of the naturally occurring amino acids
288 <400> SEQUENCE: 8
W--> 290 Tyr Pro Phe Gly Phe Xaa

RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

```

291 1          5
293 <210> SEQ ID NO: 9
295 <211> LENGTH: 7
297 <212> TYPE: PRT
299 <213> ORGANISM: artificial sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Synthetic
305 <220> FEATURE:
307 <221> NAME/KEY: MOD_RES
309 <222> LOCATION: (1)..(5)
311 <223> OTHER INFORMATION: Amino acids are in the D-form
315 <220> FEATURE:
317 <221> NAME/KEY: MOD_RES
319 <222> LOCATION: (6)..(6)
321 <223> OTHER INFORMATION: n is 0 or 1
325 <220> FEATURE:
327 <221> NAME/KEY: MOD_RES
329 <222> LOCATION: (7)..(7)
331 <223> OTHER INFORMATION: Xaa is Gly or the D-form of a naturally occurring amino acid
335 <220> FEATURE:
337 <221> NAME/KEY: MOD_RES
339 <222> LOCATION: (7)..(7)
341 <223> OTHER INFORMATION: AMIDATION
345 <400> SEQUENCE: 9
W--> 347 Ile Met Ser Trp Trp Gly Xaa
348 1          5
350 <210> SEQ ID NO: 10
352 <211> LENGTH: 6
354 <212> TYPE: PRT
356 <213> ORGANISM: artificial sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Synthetic
362 <220> FEATURE:
364 <221> NAME/KEY: MOD_RES
366 <222> LOCATION: (1)..(4)
368 <223> OTHER INFORMATION: Amino acids are in the D-form
372 <220> FEATURE:
374 <221> NAME/KEY: MOD_RES
376 <222> LOCATION: (6)..(6)
378 <223> OTHER INFORMATION: Xaa is Gly or the D-form of a naturally-occurring amino acid
382 <220> FEATURE:
384 <221> NAME/KEY: MOD_RES
386 <222> LOCATION: (6)..(6)
388 <223> OTHER INFORMATION: AMIDATION
392 <400> SEQUENCE: 10
W--> 394 Ile Met Thr Trp Gly Xaa
395 1          5
397 <210> SEQ ID NO: 11
399 <211> LENGTH: 4

```

RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

401 <212> TYPE: PRT
 403 <213> ORGANISM: artificial sequence
 405 <220> FEATURE:
 406 <223> OTHER INFORMATION: Synthetic
 409 <220> FEATURE:
 411 <221> NAME/KEY: MOD_RES
 413 <222> LOCATION: (2)..(2)
 415 <223> OTHER INFORMATION: Xaa is A1, wherein A1 is the D-form of Nve or Nle
 419 <220> FEATURE:
 421 <221> NAME/KEY: MOD_RES
 423 <222> LOCATION: (3)..(3)
 425 <223> OTHER INFORMATION: Xaa is B2, wherein B2 is Gly, Phe, or Trp
 429 <220> FEATURE:
 431 <221> NAME/KEY: MOD_RES
 433 <222> LOCATION: (4)..(4)
 435 <223> OTHER INFORMATION: Xaa is C3, wherein C3 is Trp or (Nap) FYI: Xaa can only represent a single amino acid
 439 <220> FEATURE:
 441 <221> NAME/KEY: MOD_RES
 443 <222> LOCATION: (4)..(4)
 445 <223> OTHER INFORMATION: AMIDATION
 449 <400> SEQUENCE: 11
 W--> 451 Tyr Xaa Xaa Xaa
 452 1
 454 <210> SEQ ID NO: 12
 456 <211> LENGTH: 3
 458 <212> TYPE: PRT
 460 <213> ORGANISM: artificial sequence
 462 <220> FEATURE:
 463 <223> OTHER INFORMATION: Synthetic
 466 <220> FEATURE:
 468 <221> NAME/KEY: MOD_RES
 470 <222> LOCATION: (1)..(1)
 472 <223> OTHER INFORMATION: Tyr has at its N-terminus an Me-x-H-y-N group, wherein x is 0, 1, or 2; and y is 0, 1, or 2, with the proviso that x and y is never greater than ? greater than what?
 473 or 2; and y is 0, 1, or 2, with the proviso that x and y is never
 474 r greater than ? greater than what?
 478 <220> FEATURE:
 480 <221> NAME/KEY: MOD_RES
 482 <222> LOCATION: (1)..(2)
 484 <223> OTHER INFORMATION: The amine between the first Tyr and the second Tyr is methylated
 489 <220> FEATURE:
 491 <221> NAME/KEY: MOD_RES
 493 <222> LOCATION: (3)..(3)
 495 <223> OTHER INFORMATION: Xaa is Xaa-z, wherein Xaa is Phe, (D)Phe, or (NHBz1) and FYI: Xaa can only represent a single amino acid
 wherein z is 0 or ? or what? Please ensure subsequent sequences don't show these types of errors.
 496 is 0 or ? or what?
 500 <220> FEATURE:
 502 <221> NAME/KEY: MOD_RES
 504 <222> LOCATION: (3)..(3)
 506 <223> OTHER INFORMATION: AMIDATION
 510 <400> SEQUENCE: 12

RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/10/716,578

DATE: 12/28/2004
 TIME: 09:43:43

FYI

Input Set : E:\SequenceList_014811-30.8DV4(Updated).txt
 Output Set: N:\CRF4\12282004\J716578.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 6
 Seq#:7; Xaa Pos. 4
 Seq#:8; Xaa Pos. 8
 Seq#:9; Xaa Pos. 1
 Seq#:10; Xaa Pos. 6
 Seq#:11; Xaa Pos. 2, 3, 4
 Seq#:12; Xaa Pos. 3
 Seq#:13; Xaa Pos. 4, 6
 Seq#:14; Xaa Pos. 2
 Seq#:15; Xaa Pos. 2
 Seq#:16; Xaa Pos. 2
 Seq#:17; Xaa Pos. 2
 Seq#:18; Xaa Pos. 2
 Seq#:19; Xaa Pos. 2
 Seq#:20; Xaa Pos. 2
 Seq#:21; Xaa Pos. 2
 Seq#:22; Xaa Pos. 2
 Seq#:23; Xaa Pos. 2
 Seq#:24; Xaa Pos. 2
 Seq#:25; Xaa Pos. 2
 Seq#:26; Xaa Pos. 2
 Seq#:27; Xaa Pos. 2
 Seq#:28; Xaa Pos. 2
 Seq#:29; Xaa Pos. 2
 Seq#:30; Xaa Pos. 2
 Seq#:31; Xaa Pos. 2
 Seq#:32; Xaa Pos. 2
 Seq#:33; Xaa Pos. 2
 Seq#:34; Xaa Pos. 2
 Seq#:35; Xaa Pos. 2, 3
 Seq#:36; Xaa Pos. 2
 Seq#:37; Xaa Pos. 2
 Seq#:38; Xaa Pos. 2
 Seq#:39; Xaa Pos. 2
 Seq#:40; Xaa Pos. 2
 Seq#:41; Xaa Pos. 2
 Seq#:42; Xaa Pos. 2
 Seq#:43; Xaa Pos. 2
 Seq#:44; Xaa Pos. 2
 Seq#:45; Xaa Pos. 2
 Seq#:46; Xaa Pos. 2
 Seq#:47; Xaa Pos. 2

VERIFICATION SUMMARY

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:43

Input Set : E:\SequenceList_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:1083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:1789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0